

KHACHIKYAN, E.YE.

scientific associate at Byurakan Astrophysics Observatory -- "Results of polarimetric observations of nebulae", a paper presented at the Byurakan Astrophysics Observatory of the Academy of Sciences Armenian SSR from September 20-23 1956.

Sum. I287

KHACHIKYAN, E.Ye.

Measuring the polarization degree and color of the nebulae NGC 2023  
and NGC 7023. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 10 no.5:107-122  
'57. (MIRA 11:2)

(Nebulae)

**KHACHIKYAN, E.Ye.**

Polarization of the radiation of the Crab Nebula. Soob. Biur. obser.  
no. 23:19-24 '57. (MIRA 11:4)  
(Polarization (Light)) (Nebulae)

*KHACHIKYAN E. Ye.*  
MIRZOYAN, L.V.; KHACHIKYAN, E.Ye..

Observations of Mrkos' comet (1957 d). Astron.tair. no.186:3-5 N '57.

1. Byurakan'skaya astrofizicheskaya observatoriya AN ArmSSR.  
(Comets--1957)

KHACHIKIAN, M.Ye.

Polarimetric investigation of comet-shaped nebula NGC 2261.  
Soob.Biur.obser. no.25:67-74 '58. (MIRA 11:12)  
(Nebulae)

*KHACHIK YAN, E.YE.*

Academic and Archeology Sci. Bureau, Prehistoric Observatory Socobachain, No. 26 (Communications of the Prehistoric Observatory of the Academy of Sciences of the Armenian SSR, No. 25) February, 1959. 52 p. Two copies printed.  <b>Berd, M.L.: Vlitor Amasapoghi's Archeological Tech. Sci.:</b> M.L. Kpaligam.  <b>PURPOSE:</b> This publication is intended for archeologists and anthropologists.  <b>CONTENTS:</b> This issue of the Communications of Prehistoric Observatory contains articles dealing with the properties of stellar associations in ancient calendar, investigations of planetary nebulae, and the instruments and techniques used in photometry. No personalities are mentioned. References follow each article.  <b>MURATASH, L.V. and F. Ye. Dzhidzun. Investigation of the            Comet Heim (1957-D7).</b>  <b>Nikolayev, S. Ye. Characteristic Features of the Distribution of            Open Clusters in the Galaxy Plane</b>  <b>Dzhidzun, G.A. Magnetic Buoys in the Planetary Nebulae</b>  <b>Sarkissian, G.A. Observations on One Application of the            Electropotentiometric Planimeter</b>  The author describes a new method of using a electropotentiometric planimeter in the measurement of micrographs. The operating principle of this device is based on the influence of the current of light upon the conductance of the silicon plane. The advantage of this instrument lies in the simplicity and quickness of its operation. In the block "Introduction" it is noted that more than 15 which, however, does not depend on the form and size of the measured surface. The efficiency of the proposed method may be increased by using two opposing diodes with different properties connected in series in order to reduce the fluctuation of the background brightness. The method of two opposing diodes can also be used in other fields of photometry, particularly in measuring star brightness by means of electropotentiometry.	TABLE I BOOK EXPOSITIONS      807/7-79  55 59 77 79 81 83 85 87 89 91 93 95 97 99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 139 141 143 145 147 149 151 153 155 157 159 161 163 165 167 169 171 173 175 177 179 181 183 185 187 189 191 193 195 197 199 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233 235 237 239 241 243 245 247 249 251 253 255 257 259 261 263 265 267 269 271 273 275 277 279 281 283 285 287 289 291 293 295 297 299 301 303 305 307 309 311 313 315 317 319 321 323 325 327 329 331 333 335 337 339 341 343 345 347 349 351 353 355 357 359 361 363 365 367 369 371 373 375 377 379 381 383 385 387 389 391 393 395 397 399 401 403 405 407 409 411 413 415 417 419 421 423 425 427 429 431 433 435 437 439 441 443 445 447 449 451 453 455 457 459 461 463 465 467 469 471 473 475 477 479 481 483 485 487 489 491 493 495 497 499 501 503 505 507 509 511 513 515 517 519 521 523 525 527 529 531 533 535 537 539 541 543 545 547 549 551 553 555 557 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2647 2649 2651 2653 2655 2657 2659 2661 2663 2665 2667 2669 2671 2673 2675 2677 2679 2681 2683 2685 2687 2689 2691 2693 2695 2697 2699 2701 2703 2705 2707 2709 2711 2713 2715 2717 2719 2721 2723 2725 2727 2729 2731 2733 2735 2737 2739 2741 2743 2745 2747 2749 2751 2753 2755 2757 2759 2761 2763 2765 2767 2769 2771 2773 2775 2777 2779 2781 2783 2785 2787 2789 2791 2793 2795 2797 2799 2801 2803 2805 2807 2809 2811 2813 2815 2817 2819 2821 2823 2825 2827 2829 2831 2833 2835 2837 2839 2841 2843 2845
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MIRZOYAN, L.V.; KHACHIKYAN, E.Ye.

Investigation of Mrkos' comet (1957d). Part 2. Photometry of the  
comet's luminosity. Soob.Biur.obser. no.27:15-30 '59.  
(MIRA 14:9)  
(Comets--1957)

84593

S/169/60/000/008/004/007  
A005/A001*3.2400 (1041, 1057, 1080, 2801, 3201)*

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 8, p. 201, # 9911

AUTHORS: Khachikyan, E. Ye., Kalloglyan, A. T., Kazaryan, M. A.TITLE: Observations of an Artificial Comet at Byurakan - I. With the  
"Kometa A" Unit

PERIODICAL: Astron. tsirkulyar, 1959, 15 Okt., No. 205, pp. 2-3

TEXT: On September 12, 1959, beginning in  $21^{\text{h}} 35^{\text{m}} 0^{\text{s}}$  Moscow time, the continuous photographing were carried out of the sodium cloud artificially originated by the second Soviet cosmic rocket; the unit "Kometa A" was used. Six pictures were obtained. The greatest density of blackening was observed in the direction near the rocket motion direction. The coordinates of the cloud center were roughly estimated. A table is added of the computed values of the cloud diameters for its different evolution stages. The average rate of expanding was of the order of 1.3 km/sec. According to the last photograph the cloud diameter amounted to about 1,500 km. The instant of flash is in the interval from  $21^{\text{h}} 49^{\text{m}} 20^{\text{s}}$  to  $21^{\text{h}} 49^{\text{m}} 35^{\text{s}}$ . The sodium cloud was photographed also by the 21 - 21" Schmidt-telescope; two photographs were taken. From the first, the equatorial coordinates

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84593

S/169/60/000/008/004/007  
A005/A001

Observations of an Artificial Comet at Byurakan - I. With the "Kometa A" Unit

of the artificial comet were determined, from the second the average value of the cloud expansion rate (1 km/sec) was estimated. Moreover, a weak monochromatic picture of the sodium cloud was obtained by the 8" Schmidt-chamber through the objective prisma.

D. A. M.

Translator's note: This is the full translation of the original Russian abstract.

*Byurakan astrophysical observatory*

Card 2/2

AMBARTSUMYAN, Viktor Amazaspovich; ARAKELYAN, M.A. [translator]; MIRZOYAN, L.V. [translator], red.; PARSAMIAN, E.S. [translator]; TOVMASYAN, G.M. [translator]; KHACHIKYAN, E.Ye. [translator]; SOBOLEV, V.V., red.; KAPLANYAN, M.A., tekhn.red.

[Scientific works in two volumes] Nauchnye trudy v dvukh tomakh.  
Pod red. V.V.Soboleva. Erevan, Izd-vo Akad.nauk Armianskoi SSR.  
Vol.1. 1960. 428 p. Vol.2. 1960. 360 p. (MIRA 13:11)

1. Sotrudniki Byurakanskoy astrofizicheskoy observatorii (for  
Arakelyan, Mirzoyan, Persamyan, Tovmasyan, Khachikyan).  
(Astronomy)

KHACHIKYAN, E.Ye.

Polarization of the radiation of nebulae. Vop.kosm. 7:333-372  
'60. (MIRA 13:11)  
(Nebulae)

S/620/62/000/030/001/002  
E032/E11<sup>4</sup>

AUTHORS: Khachikyan, E.Ye., and Kalloglyan, N.L.  
TITLE: On the polarisation of the cometary nebula NGC 2261  
SOURCE: Byurakan. Observatoriya. Soobshcheniya. no.30. 1962.  
45-50

TEXT: A polarimetric study of the NGC 2261 nebula, which has variable characteristics, is reported. The observations were carried out on the Schmidt telescope of the Byurakan Observatory. Nine 45-minute exposures were recorded on Kodak Oa-O plates with the polaroid at 0, 60 and 120°. The method employed in the observations and in the measurements on the negatives was described in an earlier paper (E.Ye. Khachikyan, Voprosy kosmogonii, VII, 1961, 333). The polarisation was calculated as described by D.A. Rozhkovskiy (Astronomicheskiy tsirkulyar, no.166, 1956, 13). Two sets of polarisation measurements were obtained, one for December 24-25 1960, and the other for January 13, 1961. The general pattern of the polarisation is the same as that reported earlier by E.Ye. Khachikyan (Soobshcheniya Byurakanskoy observatorii, v.25, 1958, 67) except that the mean degree of

Card 1/2

On the polarisation of the cometary... S/620/62/000/030/001/002  
E032/E114)

polarisation for the first of the above sets of measurements was 18%, and for the second, 16%. As before, a very high degree of polarisation is observed at the edges of the nebula, particularly on its eastern boundary. A new bright filament was found with the plane of preferred vibrations almost exactly at right angles to the line connecting the filament to the centre of the nebula. There are 2 figures and 1 table.

Card 2/2

KHACHIYAN, E. Ye.

Using computers for determining seismic loads based on accelerograms of severe earthquakes. Biul. Sov. po seism. no.14:94-113  
'63. (MIRA 16:4)

(Earthquakes and building)  
(Electronic computers)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721630001-1

KHACHIKYAN, E.Ye.

Polarization of Omega nebula (NGC 6618). Sov. Astr. obs.  
no. 35:24-35 164. (MRA 18:8)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721630001-1"

KHACHIKYAN, E.Ye.; PARSAMYAN, E.S.

Recent measurement of the polarization of NGC 2261. Soob.  
Blur. obser. no.35:71-73 '64. (MIRA 18:8)

L 00775-67 EW(1) GW

ACC NR: AR6004663

SOURCE CODE: UR/0269/65/000/010/0020/0020

42  
B

AUTHOR: Khachikyan, E. Ye.

TITLE: Polarization of the Omega nebula (NGC 6618)

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.179

REF SOURCE: Soobshch. Byurakansk. observ., vyp. 35, 1964, 25-35

TOPIC TAGS: light polarization, polarimeter, nebula / NGC 6618 nebula

ABSTRACT: On the basis of analysis of all the observational material on the nebula NGC 6618 the conclusion is reached that it is an unusual and very interesting object. Results are presented of a polarimeter study of the nebula, obtained at the Byurakan Observatory from four series of observations made photometrically using the double-stepped cassette method. It was found in all series of photographs that the position of the plane of polarization varied slightly along the nebula. The average degree of polarization from the second and third series of photographs was 22% and from the fourth 15%, with an average position angle of the electric vector 28° and 35° respectively. It is noted that it is difficult to explain the high degree of polarization found in the work for the nebula NGC 6618. Bibliography of 34 citations. B. Dombrovskiy [Translation of abstract]

SUB CODE: 03

UDC: 523.852

Card 1/1 awm

L 00774-67 EWT(1) GW  
AGG NR AR6004664

SOURCE CODE: UR/0269/65/000/010/0020/0020

41  
B

AUTHORS: Khachikyan, E. Ye.; Parsamyan, E. S.

TITLE: New measurement of the radiation polarization of NGC 2261

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.181

REF SOURCE: Soobshch. Byurakansk observ., vyp. 35, 1964, 71-73

TOPIC TAGS: light polarization, nebula / NGC 2261 nebula

ABSTRACT: Two new series of polarization measurements are reported for the cometary nebula NGC 2261. An average radial polarization of 17% was found. Bibliography of 5 citations. [Translation of abstract]

SUB CODE: 03

Card 1/1 awm

UDC: 523.852

KHACHIKYAN, G.

Using experience of mixed brigades and brigades of communist labor. Avt.dor.23 no.1:13-14 Ja '60. (MIRA 13:5)

1. Nachal'nik Upravleniya stroitel'stva No.4 Glavdorstroya.  
(Road construction)

KHACHIKYAN, G.G.

Effect of fracturing in a rock massif intersected with  
pressure tunnels on the resistance coefficient. Izv.  
AN Arm. SSR. Geol.i geog.nauki 15 no.4:57-63 '62. (MIRA 15:9)

1. Institut geologicheskikh nauk Akademyanskoy SSR.  
(Rock pressure)

KHACHIKYAN, G.G.

Deformation of rocks based on data obtained in situ. Izv. AN Arm. SSR.  
Geol.i geog.nauki 16 no.1:31-41 '63.

(MIRA 16:5)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.  
(Rocks--Testing) (Rock pressure)

MOSHININ, Ye.N., doktor tekhn. nauk; KHACHIKYAN, K.G., inzh.

Loss of billet stability in sheet stamping of spherical parts.  
Vest. mashinostr. 45 no.6:53-58 Je '65. (MIRA 18:6)

ACC NR: AP6021767

SOURCE CODE: UR/0413/66/000/012/0021/0021

INVENTOR: Khachikyan, K. G.; Moshnin, Ye. N.; Potulov, V. M.

ORG: None

TITLE: A method for forming spherical, elliptical and other types of dome-shaped caps. Class 7, No. 182667

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 21

TOPIC TAGS: metal forming, metal stamping

ABSTRACT: This Author's Certificate introduces a method for forming spherical, elliptical and other dome-shaped caps where the ratio between the diameter of the blank and its thickness is more than 200. A rigid die is used in this forming method. To save material and raise the quality of the products, the central part of the cap is stamped first to give it its final dimensions and shape. The peripheral annular sections of the cap are then shaped with a gradual increase in the diameter of the formed zone.

SUB CODE: 13/ SUBM DATE: 03Oct64

UDC: 621.983.1

Card 1/1

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721630001-1"

Intensity of cellulose decomposition by pure cultures of actinomycetes and fungi. Izv. AN Arm. SSR, Biol. nauki 17 no.10:49-51 0 '64.  
(MIRA 18:8)

1. Artyanckiy institut vinozelliya, vinozadarniva i plodovedstva.

KHACHIKYAN, L.A.

Distribution of cellulose-decomposing fungi in semidesert stony  
soils ("Kirs") of the Armenian S.S.R. Izv. AN Arm. SSR. Biol.  
nauki 16 no.11:39-44 N '63. (MIRA 17:4)

1. Institut vinogradarstva, vinodeliya i plodovodstva Armyanskoy  
SSR.

KHACHIKYAN, L.A.; MISHUSTIN, Ye.N., rukovoditel' raboty

Distribution of cellulose-decaying actinomycetes in semi-desert stony soils of the Armenian S.S.R. Izv. AN SSSR.  
Ser. biol. no.5:740-744 S-0 '64. (MIRA 17:9)

1. Armyanskiy nauchno-issledovatel'skiy institut vino-gradarstva, vinodeliya i plodovodstva, Yerevan. 2. chlen-korrespondent AN SSSR (for Mishustin).

SHIRAKATSI, Ananiya; TER-DAVTYAN, K.S.[translator]; AREVSHATYAN,  
S.S.[translator]; KHACHIKYAN, L.S., red.; AZIZBEKYAN, L.A.,  
tekhn. red.

[Cosmography] Kosmografiia. Predisl. i kommentarii K.S.Ter-  
Davtian i S.S.Arevshatiana. Erevan, Izd-vo AN Armianskoj SSR,  
1962. 127 p. Translated from the Old Armenian. (MIRA 16:7)

(Cosmography)

KHACHIKYAN, M.V., uchitel'

Studying corn with students of grades 5 and 6. Biol. v  
shkole no.4:14-17 J1-Ag '58. (MIRA 11:9)

1. Krymskaya srednyaya shkola No.5 Myasnikovskogo rayona  
Rostovskoy oblasti.  
(Corn (Maize)) (Agriculture--Study and teaching)

TOROSYAN, G.P., dotsent; KHACHIKYAN, V.A.; SARKISYAN, A.I., glavnnyy veterinarnyy  
vrach; AVETISYAN, V.G.

Heterogenous blood for the treatment of wounds. Veterinariia 36  
no.9:47 S '59. (MIRA 12:12)

1. Prepodavatel' Nor-Bayazetskogo zooveterinarnogo tekhnikuma (for  
Khachikyan). 2. Veterinarnyy vrach rayvetslechebnitsy Nor-Bayazetskogo  
rayona (for Avetisyan).  
(Blood--Transfusion) (Veterinary medicine)

L 26382-66 EWP(j)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(l)/EWP(v)/EWP(t) IJP(c)  
ACC NR: AP6007726 RM/HW/JD/HW SOURCE CODE: UR/0413/66/000/003/0139/0139

AUTHORS: Markov, D. A.; Prokopenko, Yu. K.; Khachikyan, V. M.; Krol', V. M. 43  
B

ORG: none

TITLE: Device for preparing stocks of cellular blocks. Class 75, No. 178711.

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 139

TOPIC TAGS: machine part, adhesive material, cutting tool, honeycomb structure

ABSTRACT: This Author Certificate describes a device for the preparation of cellular blocks. The device includes the core, a system of drums, cutting knives, a reservoir for gluing compounds, and a glue-applicator attachment. The glue applicator is made in the form of a rotating roller drum consisting of two full cylinders placed one inside the other. This arrangement permits simultaneous regulation of the thickness and width of all glued strips in the process of their application to, for example, foil (see Fig. 1).

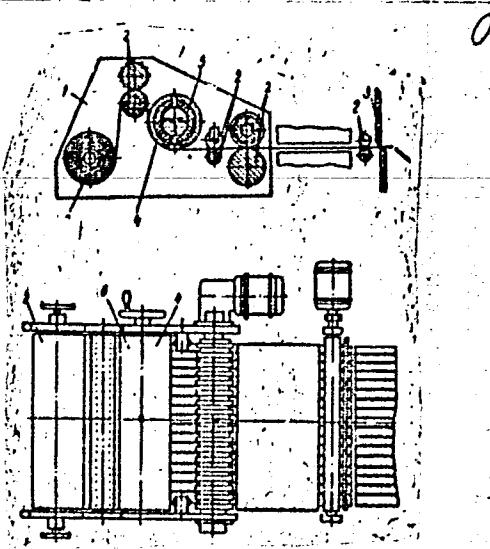
Card 1/2

UDC: 667.651-3

L 26382-66

ACC NR: AP6007726

Fig. 1. 1 - core; 2 - drum; 3 - knife;  
4 - outer cylinder; 5 - inner cylinder;  
6 - rotating drum.



Orig. art. has: 1 figure.

SUB CODE: 14, 11/ SUBM DATE: 31Aug64

Card 2/2 CC

KHACHIKYAN, V.Ye.

Renovation of enterprises of the chemical industry. Prom.stroi.  
40 no.11:31-34 '62. (MIRA 15:12)

1. Trest Armkhimpromstroy.  
(Eriwan--Chemical plants)

USHAKOV, Vyacheslav Andreyevich; KHACHIROV, L.I., otv. red.;  
ROZHDESTVENSKAYA, V.A., red.

[Diagrams of telephone apparatus with transistor  
amplifiers; manual for students of the fourth course  
in telegraph and telephone communication] Skhemy tele...  
fonnykh apparatov s usiliteliami na transzistorakh;  
uchebnoe posobie dlja studentov IV kursa telegrafnoi i  
telefonnoi sviazi. Moskva, Redaktsionno-izdatel'skii  
otdel VZEIS, 1963. 33 p. (MIRA 17:5)

KHACHIROV, L.I.; POKRASS, M.P., otv. red.; ALEKSEYEVA, T.D.,  
red.

[Long-distance intraprovincial semiautomatic telephone  
apparatus; manual for students of telephone and telegraph  
communication departments] Apparatura magistral'noi i vnutri-  
oblastnoi poluvtomaticheskoi telefonnoi sviazi; uchebnoe po-  
sobie dlja studentov fakul'teta telefonno-telegrafnoi sviazi.  
Moskva, Red.-izd. otdel VZEIS, 1963. 34 p. (MIRA 18:3)

IRAKI SHVILI, V.

PEKLY, M. and IRAKI SHVILI, V. "The chemical composition of the peanut of western Georgia," Trudy Tbilis. gos. un-ta im. Stalina, Vol XXXIIIa, 1949, p. 61-65, (In Georgian, resume in Russian)

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

5.2410

(1087)

24724  
S/078/61/006/007/001/014  
B107/B217

X

AUTHORS: Khachishvili, V. I., Mozdokeli, T. G., Smolyár, B. Ya.,  
Asatiani, Ya. V.

TITLE: Production of elementary boron by reducing boron trifluoride  
with metallic sodium

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 7, 1961, 1493-1496

TEXT: A method of producing pure elementary boron was developed by reacting boron trifluoride and metallic sodium at 600°C. A sodium excess is decomposed with alcohol or ammonium chloride solution; sodium fluoride and impurities are extracted by washing with hydrochloric acid and water. The boron thus obtained is a dark-brown amorphous powder, the density of the discharged material is 0.2 - 0.25 g/cm<sup>3</sup>. At room temperature, it absorbs up to 12% by weight. The apparatus used is schematically shown: Metallic sodium is molten in the tank (1) which is heated up to 105°C, then, the tank is filled with dry nitrogen. Boron trifluoride from the cylinder (10) is condensed in the capturing vessels (9) and (11) by cooling with liquid oxygen, the non-condensed gases escape toward the

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## Production of elementary ...

vacuum pump (19) which maintains a vacuum of  $10^{-3}$  mm Hg. The process is controlled by a manometer (8). The steel reaction vessel (4) is in the furnace (6) the lateral walls of which are protected by a separate partition (5). The vessel contains the reaction cylinder (3); a high-pressure valve of stainless steel (2) is the connecting piece with the tank (1), the pipes (14) of copper and (15) of stainless steel as well as the sylphon with the reducing piece (13) are the connecting pieces with the boron trifluoride cylinders. The air contained in the vessel is sucked off by the copper pipe (16) and the copper (18). After evacuation of the plant, the vessel is heated to 600°C and boron fluoride passed through the spiral copper pipe (12) and the sylphon valve of copper (7) at a pressure of 500 mm Hg and a rate of 5 l/min. A valve regulates the addition of liquid sodium. Pressure varies between 400 and 500 mm Hg during the reaction. To terminate the process, first sodium addition is stopped, boron fluoride, however, furthermore introduced until it starts condensing in the cooling vessel (11). The vessel is left cooling, filled with dry nitrogen and then opened. The small amounts of unreacted sodium are separated by washing with unhydrous ethyl alcohol or ammonium chloride solution under nitrogen. Coagulation of the very fine-dispersed

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APPROVED FOR RELEASE: 09/17/2001

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## Production of elementary ...

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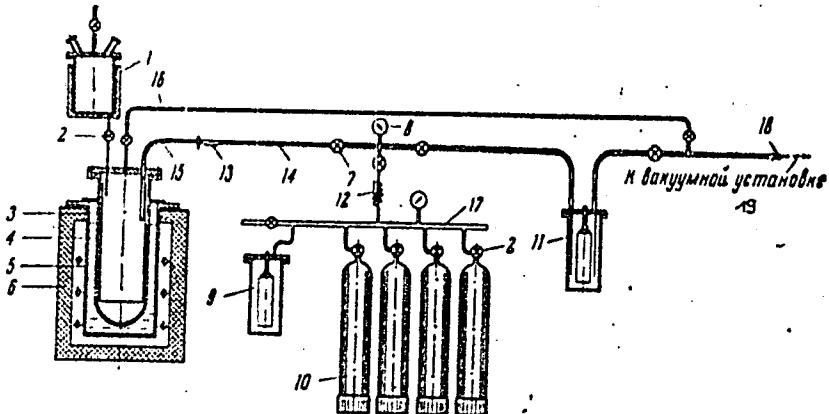
boron (0.5% ammonium chloride solution, 80°C) is important for the further treatment. Subsequently, sodium fluoride is extracted. Experiments at 600 and 850°C showed that at 850°C losses are caused by very fine-dispersed boron and the formation of sodium fluoborate. Moreover, impurities caused by the material of the apparatus are less high at 600°C. The purity of boron prepared at 600°C was the following: coarse-grained part with 99.5% B, 0.2% Si, traces of Mg and Na; fine-grained part with 93% B, 2.0% Si, 0.2% Fe, 0.13% Mg, 0.6% Al, 0.16% Ca, traces of sodium. The authors thank I. G. Gverdtsitel' and Ye. Ye. Baron' for discussion, A. L. Sokolova for his assistance in analyzing. A. V. Topchiyev is mentioned. There are 1 figure, 1 table, and 25 references: 16 Soviet-bloc and 9 non-Soviet-bloc. The four references to English-language publications read as follows: H. C. Cowen. Nucl. Engn., 4, II (1959); B. H. Danziger. Ind. Eng. Chem., 47, 1495 (1955); C. H. Chilton. Chem. Engineering., 5, 148 (1957); J. S. Spevack. U. S. Patent, v. 2, 685, 501 (1954).

SUBMITTED: June 6, 1960.

Card 3/4

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S/078/61/006/007/001/014  
B107/B217

Production of elementary ...



Legend to the Fig.: See Text.

Card 4/4

KHACHIYAN, A. S.

KHACHIYAN, A. S.: "A more precise method of calculating, and an investigation of, the process of forced fuel injection into a high-speed automobile Diesel engine." Min Higher Education USSR. Moscow Automobile and Road Inst imeni V. M. Molotov. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Knizhnaya Ietopis', No 23, 1956

KHACHIYAN, A.S., kandidat tekhnicheskikh nauk.

Making a more accurate calculation and investigation of fuel injection  
pumps. Avt.i trakt.prom. no.12:6-10 D '56. (MLRA 10:2)

1. Nauchno-issledovatel'skiy avtomobil'nyy institut.  
(Fuel pumps)

KHACHIYAN, A. S., kand. tekhn. nauk

Process of fuel injection by open and closed-type pump and injector units in case of flexible drives. Trudy MADI no. 25:86-119 '60.  
(MIRA 13:10)

(Diesel engines)

"APPROVED FOR RELEASE: 09/17/2001

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maximum performance in a given fuel system (i.e., rpm, torque, etc.)

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the number of perforations in an atomizer and the type of diesel engine

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APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721630001-1"

*Khachikyan, E. Ye.*  
KHACHIKYAN, E.Ye.

Vibration of bars subjected to the action of seismic impact and  
jerks taking into consideration the dissipation of energy. Izv.AN  
Arm.SSR. Ser.tekh.nauk 10 no.6:53-66 '57. (MIRA 11:2)

1.Institut stroymaterialov i sooruzheniy AN ArmSSR.  
(Elastic rods and wires--Vibration)  
(Earthquakes and building)

KHACHIYAN, E.Ye.

Seismic resistance of structures with steplike vertical contours.  
Dokl. AN Arm. SSR 26 no.5:269-275 '58. (MIRA 11:7)

I. Institut stroitel'nykh materialov i sooruzheniy Ministerstva  
stroitel'stva ArmSSR. Predstavлено A.G. Nazarovym.  
(Earthquakes and building)

KHACHIYAN, E.Ye.

Calculation of higher forms of vibrations and the dispersion  
of energy in the determination of seismic stresses. Dokl.AN  
Arm.SSR 27 no.5:263-268 '58. (MIRA 12:5)

1. Institut stroitel'nykh materialov i sooruzheniy Ministerstva  
stroitel'stva ArmSSR. Predstavлено A.G.Nazarovym.  
(Earthquakes and building)

KHACHIYAN, E.Ye.

Effect of higher forms of vibrations and energy distribution on  
the magnitude of the seismic load. Trudy Arm. inst. stroimat.  
i soor. no.1:21-40 '59. (MIRA 14:12)  
(Earthquakes and building)

KHACHIYAN, E.Ye.

Dynamic factors in the designing of an earthquake-proof elastic system. Izv. AN Arm. SSR. Ser. tekhn. nauk 13 no. 3:17-26 '60.  
(MIRA 14:1)

1. Armyanskij nauchno-issledovatel'skiy institut stroymaterialov  
i sooruzheniy.  
(Earthquakes and building)

KHACHIYAN, E. Ye. Cand Tech Sci -- "On the study of earthquake resistance of structures taking into account higher forms of ~~oscillation~~ <sup>vibration</sup> and energy dissipation." Mos, 1961 (Acad of Construction and Architecture USSR. Central Sci Res Inst of Construction Design "TsNIISK"). (KL, 4-61, 201)

-152-

KHACHIYAN, E.Ye.

Designing earthquake-proof buildings in considering accelerographs  
of heavy earthquakes. Izv.AN Arm.SSR.Ser.tekh.nauk 15 no.3:3-15  
'62. (MIRA 15:6)

1. Armyanskiy nauchno-issledovatel'skiy institut stroymaterialov  
i sooruzheniy.  
(Earthquakes and building)

KHACHIYAN, E. Ye.

Using accelerograms of heavy earthquakes in designing earthquake  
proof installations. Izv.AN Arm.SSR.Ser.tekh.nauk 15 no.5:3-13  
'62. (MIRA 15:12)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh  
materialov i soorusheniy.  
(Earthquakes and building)

KHACHIKYAN, E. Ye.; KALLOGLYAN, N. L.

Polarization of cometary nebula NGC 2261. Soob. Biur. obser.  
no. 30:45-50 '62. (MIRA 15:10)

(Nebulae)

**KHACHIYAN, E.Ye.**

Study of nonlinear vibrations of structures during heavy  
earthquakes. Dokl. AN Arm. SSR 36 no.4:211-215 '63.  
(MIRA 16:11)

1. Armyanskiy nauchno-issledovatel'skiy institut stroy-  
materialov i sooruzheniy. Predstavлено akademikom AN Armyanskoy  
SSR A.G. Nazarovym.

KHACHIYAN, E.Ye.

Effect of shear deformation in free and forced vibrations of flexible structures. Dokl. AN Arm. SSR 37 no.3:113-119 '63. (MIRA 17:1)

1. Armyanskij nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy. Predstavлено akademikom AN Armyanskoy SSR A.G. Nazarovym.

KHACHIYAN, E. Ye.

Designing structures for seismic stability according to accelerograms of heavy earthquakes., Izv. AN Arm. SSR. Ser. tekhn. nauk 17 no.1:41-52 '64  
(MIRA 17:3)

1. Armyanskiy Nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.

KHACHIYAN, E.Ye.

Calculating structures for seismic stability taking elastoplastic deformations into account. Izv. AN Arm. SSR. Ser. tekhn. nauk 17 no. 4:3-15 '64. (MIRA 17:11)

1. Artyunskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.

USSR / Microbiology. Human and Animal Pathogens.  
Coryncbacteria.

F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5620.

Author : Blyumental', K. V.; Khachyan, G. A.

Inst : Not given.

Title : Significance of Determination of Toxicogenicity  
of Diphtheria Bacilli by the in vitro Method  
for the Diagnosis of Atypical Forms of Diph-  
theria.

Orig Pub: Vopr. okhrany matorinstva i dotstva, 1958,  
2, No 3, 27-33.

Abstract: No abstract.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721630001-1"

Importance of in vitro determination of the toxicogenicity of diphtheria  
bacilli in diagnosing atypical forms of diphtheria. Von.okh.mat. i  
det. 3 no.3:27-33 My-Je '58. (MIRA 11:5)

1. Iz infektsionnogo otdela (zav.-prof. M.Ye. Sukhareva) kafedry  
pediatrii TSentral'nogo instituta usovershenstvovaniya vrachey (zav.-  
prof. G.N. Speranskiy) na baze bol'nitsy imeni I.V. Rusakova (glavnyy  
vrach-zasluzhennyj vrach RSFSR dotsent V.A. Kruzhkov).  
(BLYUMENTAL', K.V.) (KHACHIYAN, G.A.)

KHACHIYAN, G.A.

KHACHIYAN, G.A.

Clinical and bacteriological parallels in diphtheria [with summary  
in English]. Pediatrja 36 no.2:25-29 F '58. (MIRA 11:3)

1. Iz infektsionnogo otdela (zav. - prof. M.Ye.Sukhareva) kafedry  
pediatrii TSentral'nogo instituta usovershenstvovaniya vrachey  
(zav. - deyastvitel'nyy chlen AMN SSSR prof. G.N.Speranskiy) na baze  
Klinicheskoy bol'nitsy imeni S.P.Botkina (glavnnyy vrach - prof.  
A.N.Shabanov)  
(DIPHTHERIA)

KHACHIYAN, G. A.; Master Med Sci (diss) -- "The clinical evaluation of determination of the toxicity of diphtheria microbes by 'in vitro' methods on dense nutrient media". Moscow, 1959. 15 pp (Min Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, No 6, 1959, 146)

KHACHIYAN, G.A.

Clinical and bacteriological parallels in diphtheria. Nauch. rab.  
asp. i klin. ord. no.6:89-96 '60. (MIRA 14:12)

1. Kafedra pediatrii (zav. deystvitel'nyy chlen AMN SSSR prof.  
G.N.Speranskiy) TSentral'nogo instituta usovershenstvovaniya  
vrach.  
(DIPHTHERIA)

KHACHIAN, M. G.

USSR/Engineering - Dynamic modulus of elasticity

Card 1/1      Pub. 2la - 2/5

Authors : Khachian, M. G.

Title : A new method of determining the dynamic modulus of elasticity of structural materials

Periodical : Dok. AN Arm. SSR 20/1, 9-10, 1955

Abstract : A new method for determining the dynamic modulus of elasticity of structural materials is described. The method is based on recording free oscillations in a sample piece of the material by an oscillograph with the help of a microphone and audio-amplifier. Diagrams.

Institution : Acad. of Sc., Arm. SSR, Institute of structural materials and Constructions

Presented by : A. G. Nazarov, July 10, 1954

KHACHIYAN, M.G.

Multipendulum precision seismometer. Dekl, AN Arm, SSR 21 no. 5:205-207  
'55. (MLRA 9:4)

1. Institut strelitel'nykh materialov i seosuzheniy Akademii nauk  
Armyanskoy SSR.

(Seismometers)

KHACHIYAN, M.G.

Resonance method for determining the dynamic elastic modulus of solid bodies. Izv. AN Arm.SSR.Ser. tekhn. nauk 11 no. 3:53-55 '58.  
(MIRA 11:8)

1. Institut stroymaterialov i sooruzheniy Ministerstva stroitel'stva  
ArmSSR.  
(Elastic solids)

KHACHIYAN, M.G.

Liquid accelerograph. Dokl. AN Arm. SSR 27 no.1:31-32 '58.  
(MIRA 11:9)

1. Institut stroymaterialov i sooruzheniy Ministerstva stroitel'stva  
ArmSSR. Predstavлено A.G. Nazarovym.  
(Accelerometers)

~~KHACHIYAN, M.G.~~

~~String dynamometers for torque measurements. Izv. AN Arm.SSR.  
Ser.tekh.nauk 11 no.5:70-71 '58. (MIRA 11:11)~~

1. Vodno-energeticheskiy institut AN ArmSSR.  
(Dynamometer)

KHUDAVERDYAN, V.M.; KHACHIYAN, M.G.

Determination of the frequency of free vibrations of some building  
materials by a visual method of sound measurement. Trudy Arm.  
inst. stroimat. i soor. no.1:287-292 '59. (MIRA 14:12)  
(Building materials--Testing)  
- - .(Vibration)

OVSENYAN, K.Kh.; KHACHIYAN, M.G.

Device for recording water flow under nonstationary conditions. Izv.  
AN Arm.SSR. Ser.tekh.nauk no.5:61-64 '60. (MIRA 13:11)  
(Flowmeters)

ATSAGORTSYAN, Z.A.; KHACHIKIAN, M.G.

Methods for investigating the strength and durability of stone  
materials. Zav.lab. 26 no.1:98-99 '60. (MIRA 13:5)

1. Armyanskij institut stroitel'nykh materialov i sooruzheniy.  
(Building materials--Testing)

KHACHIYAN, M.G.

Small-sized liquid accelerometer. Izv. AN Arm. SSR. Ser. tekhn.-  
nauk 15 no.4:65-66 '62. (MIRA 15:9)

1. Armyanskiy nauchno-issledovatel'skiy institut stroymaterialov  
i sooruzheniy.

(Accelerometers)

S/173/62/015/006/001/001  
D263/D307

AUTHOR: Khachiyan, M.G.

TITLE: A laboratory vibrating stand

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya, v. 15,  
no. 6, 1962, 59-60

TEXT: A description is given of an electromagnetically operated vibrating stand for the calibration of vibration-measuring instruments. The generators operating at 20-20,000 cps; low frequency currents were obtained by modulating the two frequencies by the method of beats. Since the above generators are not very powerful and cannot induce vibrations of the necessary amplitude of the mass and rigidity of the stand are relatively high, the frequency of excitatory current was made to coincide with the resonance frequency of the stand. Amplitude was controlled by changing the degree of modulation. The 30 x 40 cm platform was suspended on 30 cm steel strips which prevented vertical and torsional motions. The resonant frequencies of the stand could be varied by varying the lengths of

Card 1/2

A laboratory vibrating stand

S/173/62/015/006/001/001  
D263/D307

the steel strips. Higher order frequencies were damped by filling the hollow legs of the stand with bitumen. Resonant frequencies could be varied from 2 to 60 cps, accelerations were 0 - g/2, and displacements from 0.01 to 0.5 mm with a complete absence of unwanted frequencies. There are 3 figures.

ASSOCIATION: Armyanskiy NII stroitel'nykh materialov i sooruzheniy (Armenian NII of Construction and Constructional Materials)

SUBMITTED: September 5, 1962

Card 2/2

NALPANDYAN, A.D.; KHACHIKYAN, R.Ye.; PETYAN, E.O.

Antagonistic properties of actinomycetes isolated from semi-desert soils of Armenia. Izv. Ak Arm. SSR. Biol. nauki 18 no.8;61-68 Ag '65. (MIRA 18:9)

1. Botanicheskiy institut AN Armyanskoy SSR.

KHACHIYAN, A.S., kand. tekhn. nauk; LEKHOVITSER, M.A., inzh.; LEVIN, Yu.D.,  
inzh.; BRONOV, V.G., inzh.

The SGGA-48 automated engine-generator system with an 80 hp.  
60Ch 12/14 gas motor. Energomashstroenie ll no.4:28-30  
Ap '65. (MIRA 18:6)

KHACHIYAN, M.G.

Stand for calibrating transducers of vibratory motion. Izv. AN AR  
Arm.SSR.Ser.tekh.nauk 18 no.4:60-62 '65. (MIRA 18:9)

1. Armyanskij nauchno-issledovatel'skiy institut stroitel'nykh  
materialov i sooruzheniy.

KHACHIYAN, S.A. (Baku)

Forms of extracurricular work with backward students in mathematics.  
Mat. v shkole no.4:78-83 Jl-Ag '56. (MLRA 9:9)  
(Mathematics--Study and teaching)

KHACHIYAN, S.V., kand. tekhn. nauk

Eliminating the variable error of scanning torque transducer  
on rotating shafts. Sbor. nauch. trud. EPI 22:3-10 '64.  
(MIRA 18:12)

KHACHIYEV, L.G., ordinator

Case of a primary gastric sarcoma. Med. zhur. Uzb. no.4:67-68  
Ap '60. (MIRA 15:3)

1. Iz kafedry obshchey khirurgii lechebnogo fakul'teta (zav.  
- prof. Kh.G. Gafurov) Tashkentskogo gosudarstvennogo meditsin-  
skogo instituta.

(STOMACH--TUMORS)

KHACHIYEV, S.

Life brings improvements. Sov. profsoiuzy 4 no.9:38-40 S'56.  
(MIRA 9:10)

1. Znoveduyushchiy otdelom proizvodstvenno-massovoy raboty Uzbekskogo  
respublikanskogo soveta profsoyuzov.  
(Uzbekistan--Efficiency, Industrial)

KHACHIYAN, S.V.

Mechanical shunt. Izv. vys. ucheb. zav.; neft' i gaz 4 no.3:  
103-106 '61. (MIRA 16:10)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721630001-1"

Device for measuring the torque and actual power on a rotating shaft.  
Izv. vys. ucheb. zav.; neft' i gaz 4 no.5:123-128 '61.  
(MIRA 15:2)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.  
(Shafting--Measurement)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721630001-1

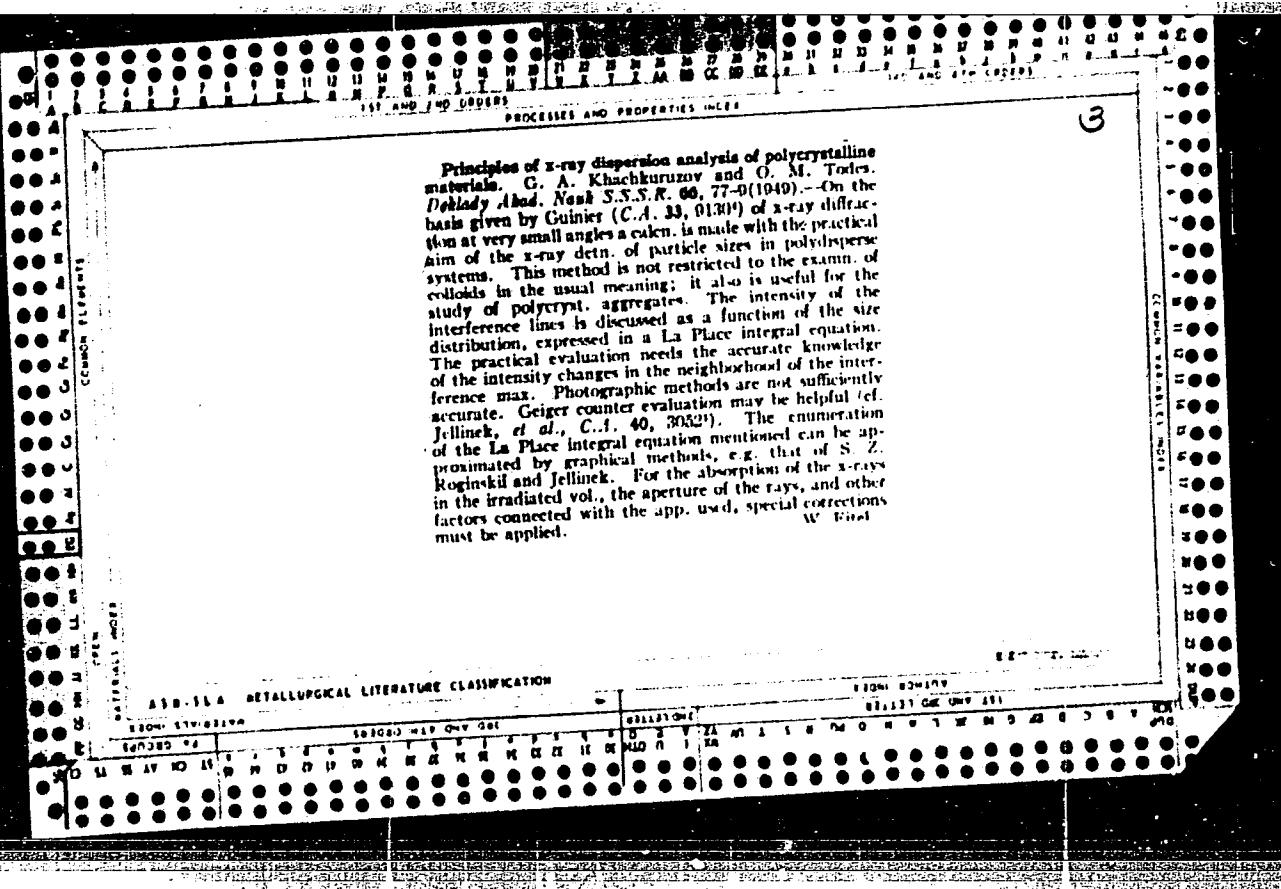
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CIA-RDP86-00513R000721630001-1"

KHACHKURUZOV, G.A.

Vibrational energy levels of the water molecule. Trudy GIPKH no.42:  
51-95 '59.  
(Water) (Chemistry, Physical and theoretical)  
(MIRA 13:10)

24(7)

AUTHOR: Khachikuruzov, G.A.

SOV/51-6-4-9/29

TITLE: Vibrational Constants of the Water Molecule (Kolebatel'nyye postoyannyye molekuly vody)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 4, pp 463-474 (USSR)

ABSTRACT: The recent introduction of semiconducting photoresistors made it possible to investigate the fine structure of a large number of vibration-rotational bands of water vapour in the near infrared region ( $1\text{-}6.5 \mu$ ). Investigations of the vibration-rotational spectra of water vapour yield about 40 vibration levels of  $\text{H}_2\text{O}$ . Those are given in Table 1, which lists the data assembled earlier by the author (Ref 6). It is shown that these levels, within the limits of the errors in their determination, are given by the full cubic expression (Eq 1) for  $G_0^0(v_1, v_2, v_3)$  when the Darling-Dennison resonance is allowed for. The author determined anew the values of 19 vibrational constants  $\text{H}_2\text{O}$  allowing for all anharmonicity constants of the second order. The calculated vibrational constants are given (in  $\text{cm}^{-1}$ ) in Table 2. In Table 3 the experimental values of the non-resonant vibration levels of  $\text{H}_2\text{O}$  taken from Table 1 are compared with the corresponding calculated values derived using

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SOV/51-6-4-9/29

**Vibrational Constants of the Water Molecule**

Eq (1) and the vibrational constants given in Table 2. A similar comparison is made in Table 4 for levels resonating in pairs. Tables 3 and 1 show that the cubic expression in Eq (1) reproduces well the experimental values of non-resonant vibration levels of H<sub>2</sub>O at  $\nu_2 \leq 5$ . Tables 4 and 1 show that, in the majority of cases, the differences between the calculated and empirical values of energies of the levels resonating in pairs do not exceed the experimental error. The author calculated also vibrational levels of H<sub>2</sub>O which take part in triple resonance (Table 5) and the frequencies of normal vibrations and anharmonicity constants (Table 6). There are 6 tables and 20 references, 1 of which is Soviet, 15 English, 3 German and 1 translation from English into Russian.

SUBMITTED: April 9, 1958

Card 2/2

KHACHIKURIZOV, G. A.

Force constants of the water molecule and the normal vibrational frequencies of its isotopic varieties. Trudy GIPKH no.42:96-108  
'59. (MIRA 13:10)

(Water)

(Chemistry, Physical and theoretical)

KHACHKURUZOV, G.A.

Vibrational constants of the isotopic varieties of the water molecule.  
Trudy GIPIKH no.42:109-131 '59. (MIRA 13:10)  
(Water--Spectra) (Chemistry, Physical and theoretical)

YUDIN, B.F.; KHACHKURUZOV, G.A.

Heats of formation of halogen derivatives of methane. Trudy GIPKH  
no.42:132-157 '59. (MIRA 13:10)  
(Methane) (Heat of formation)

KHACHKURUZOV, G.A.

Method for determining nonrigidity corrections for the higher  
levels of rotational energy in molecules of the asymmetric type.  
Opt. i spektr. 9 no. 6:721-727 D '60. (MIRA 14:1)  
(Spectrum, Molecular)

KHACHKURUZOV, G.A.; MILEVSKAYA, I.S. (Leningrad)

Calculation of thermodynamic functions for polyatomic gases  
with nonrigid molecules. Part 1: General theory. Zhur. fiz.  
khim. 34 no. 11:2554-2560 N '60. (MIRA 14:1)

1. Gosudarstvennyy institut prikladnoy khimii.  
(Thermodynamics) (Gases)

24.6100

68309

AUTHOR: Khachkurov, G.A.

S07/51-8-1-7/40

TITLE: Frequencies of the Fundamental Vibrations <sup>V</sup> of the SO<sub>3</sub> Molecule

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 1, pp 40-44 (USSR)

ABSTRACT: From investigations of the Raman spectra of liquid and gaseous SO<sub>3</sub>, carried out by Gerding, Nijveld and Muller (Ref 1) and the infrared spectrum of gaseous SO<sub>3</sub>, reported by Gerding and Lecomte (Ref 2) the latter two authors deduced the fundamental vibration frequencies of the SO<sub>3</sub> molecule:

$$\nu_1 = 1069 \text{ cm}^{-1}; \nu_2 = 652 \text{ cm}^{-1}; \nu_3 = 1333 \text{ cm}^{-1}; \nu_4 = 532 \text{ cm}^{-1}.$$

Here  $\nu_1$  is the frequency of a planar symmetric vibration,  $\nu_2$  is the frequency of a non-planar vibration and  $\nu_3$ ,  $\nu_4$  are the frequencies of doubly degenerate planar vibrations (antisymmetric valence and deformational). The frequencies  $\nu_1$ ,  $\nu_3$  and  $\nu_4$  occur in the Raman spectra and the frequencies  $\nu_2$ ,  $\nu_3$  and  $\nu_4$  are found in the infrared spectra. The frequencies  $\nu_1$ ,  $\nu_2$ ,  $\nu_3$  were obtained from the data on free SO<sub>3</sub> molecules in gases and, therefore, they can be accepted as correct values. The frequency  $\nu_4$  was obtained from investigations of liquid SO<sub>3</sub> (Ref 1); it is not reliable because of strong intermolecular

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S/058/61/000/004/A10/042  
A001/A101

AUTHORS: Khachkurov, G.A., Kokushkin, V.V.

TITLE: On oscillation frequencies  $\nu_1$  and  $\nu_2$  of molecules  $H_2O_2$  and  $D_2O_2$

PERIODICAL: Referativnyy zhurnal. Fizika, no 4, 1961, 161, abstract 4V77 ("Sb. tr. Gos. in-ta prikl. khimii", 1960, no 46, 89 - 97)

TEXT: Based on the available experimental data on the spectra of liquid and gaseous  $H_2O_2$  and  $D_2O_2$ , as well as  $H_2O$  and  $D_2O$ , the following values of ground frequencies  $\nu_1$  (valence symmetric oscillation) and  $\nu_2$  (deformation antisymmetric oscillation) of these molecules were determined (in  $cm^{-1}$ ):  $\nu_1 (H_2O_2) = 3,580$ ;  $\nu_2 (H_2O_2) = 1,320$ ;  $\nu_1 (D_2O_2) = 2,650$ ;  $\nu_2 (D_2O_2) = 970$ . The accuracy of determinations is confined within the range  $\pm 20 cm^{-1}$ .

A. Osipov

[Abstracter's note: Complete translation.]

Card 1/1

Calculation of the thermodynamic functions of polyatomic gases with nonrigid molecules. Part 2: Nonlinear symmetrical molecules  $XY_2$ .  
Zhur. fiz. khim. 35 no.1:142-151 Ja '61. (MIRA 14:2)

1. Gosudarstvennyy institut prikladnoy khimii, Leningrad.  
(Thermodynamics) (Molecules)

GURVICH, Lev Veniaminovich, kand. khim. nauk; KHACHKURUZOV, Georgiy Akopovich, kand. khim. nauk; MEDVEDEV, Vadim Andreyevich, kand. khim. nauk; VEYTS, Inessa Veniaminovna, kand. khim. nauk; BERGMAN, Georgiy Andreyevich; YUNGMAN, Vladimir Stepanovich; RTISHCHEVA, Nina Petrovna; KURATOVA, Lidiya Fedorovna; YURKOV, Georgiy Nikolayevich; KANE, Amaliya Abramovna; YUDIN, Boris Fedorovich; BRCUMSHTEYN, Boris Isidorovich; BAYBUZ, Viktor Feodoseyevich; KVILIVIDZE, Valeriy Aleksandrovich; PROZOROVSKIY, Yevgeniy Aleksandrovich; VOROB'YEV, Boris Aleksandrovich; GERASIMOV, Ya.I., retsenzeng; SKURATOV, S.M., prof., retsenzent; GLUSHKO, V.P., akad., otv.red.; KHACHKURUZOV, G.A., red.; GUROV, K.P., red.izd-va; LAUT, V.G., tekhn.red.

[Thermodynamic properties of individual substances; reference guide in two volumes]Termodinamicheskie svoistva individual'nykh veshchestv; spravochnik v dvukh tomakh. Izd.2., polnost'iu perer. i rasshirennoe. Pod red. V.P.Glushko (otv. red.) i dr. Moskva, Izd-vo Akad. nauk SSSR. Vol.1.(Calculation of thermodynamic properties)Vychislenie termodinamicheskikh svoistv. 1962. 1161 p. Vol.2. [Tables of thermodynamic properties]Tablitsy termodinamicheskikh svoistv. 1962. 916 p. (MIRA 15:10)

(Continued on next card)

Gurvich, Lev Veniaminovich, Georgiy Akopovich Khachkuruzov, Vadim Andreyevich Medvedev, Inessa Veniaminovna Veyts, Georgiy Andreyevich Bergman, Vladimir Stepanovich Yungman, Nina Petrovna Rtishcheva, Lidiya Fedorovna Kuratova, Georgiy Nikolayevich Yurkov, Amaliya Abramovna Kane, Boris Fedorovich Yudin, Boris Isidorovich Brounshteyn, Viktor Feodoseyevich Baybuz, Valeriy Aleksandrovich Kvivilidze, Yevgeniy Aleksandrovich Prozorovskiy, and Boris Aleksandrovich Vorob'yev.

Termodinamicheskiye svoystva individual'nykh veshchestv; spravochnik v dvukh tomakh. tom 1: Vychisleniye termodinamicheskikh svoystv; tom 2: Tablitsy termodinamicheskikh svoystv (Thermodynamic Properties of Individual Substances; Reference Book in Two Volumes. v. 1: Calculation of Thermodynamic Properties; v. 2: Tables of Thermodynamic Properties). 2d ed., rev. and enl. Moscow, Izd-vo AN SSSR, 1962. 1161 and 916 p. 4000 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut goryuchikh iskopayemykh; and Gosudarstvennyy komitet Soveta Ministrov SSSR

*Khachkuruzov, G.A.*

PHASE I BOOK EXPLOITATION

JUN 50V/6260

Gurvich, Lev Veniaminovich, Georgiy Akopovich Khachkuruzov, Vadim Andreyevich Medvedev, Inessa Veniaminovna Veyts, Georgiy Andreyevich Bergman, Vladimir Stepanovich Yungman, Nina Petrovna Rtishcheva, Lidiya Fedorovna Kuratova, Georgiy Nikolayevich Yurkov, Amaliya Abramovna Kane, Boris Fedorovich Yudin, Boris Isaidorovich Brounshteyn, Viktor Feodoseyevich Baybuz, Valeriy Aleksandrovich Kvlibidze, Yevgeniy Aleksandrovich Prozorovskiy, and Boris Aleksandrovich Vorob'yev.

Termodinamicheskiye svoystva individual'nykh veshchestv; spravochnik v dvukh tomakh. tom 1: Vychisleniye termodinamicheskikh svoystv; tom 2: Tablitsy termodinamicheskikh svoystv (Thermodynamic Properties of Individual Substances; Reference Book in Two Volumes. v. 1: Calculation of Thermodynamic Properties; v. 2: Tables of Thermodynamic Properties). 2d ed., rev. and enl. Moscow, Izd-vo AN SSSR, 1962. 1161 and 916 p. 4000 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut goryuchikh iskopayemykh; iind Gosudarstvennyy komitet Soveta Ministrov SSSR

Card 1/B

## Thermodynamic Properties (Cont.)

SOV/6260

po khimii. Institut prikladnoy khimii.  
 Resp. Ed.: V. P. Glushko, Academician, L. V. Gurvich, G. A. Khach-kuruzov, I. V. Veyts, and V. A. Medvedev; Ed. of Publishing House: K. P. Gurov; Tech. Ed.: V. G. Laut.

**PURPOSE:** This reference book may be used in scientific-research and experimental-design work in institutes, design offices, and schools of higher education, as well as for training specialists in chemical thermodynamics and thermal physics.

**COVERAGE:** Volume 1 of this work deals with methods for calculating thermodynamic properties and with the selection of constants required for the calculations. Volume 2 contains tables of thermodynamic properties (reduced thermodynamic potential, entropy, enthalpy, and the logarithm of the dissociation or ionization constants of equilibrium) compiled where data were lacking, on the basis of published and unpublished material from a number of Soviet research institutes. Thermodynamic properties for the ideal gas

Card 2/3

SOV/6260

## Thermodynamic Properties (Cont.)

state are presented in table form for 335 gases, 44 liquids, and 45 solids compounded from 33 chemical elements and their isotopes, viz.: H, D, T, He, Li, Be, B, C, N, O, F, Ne, Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca, Br, Kr, Re, Sr, Zr, I, Xe, Cs, Ba, Hg, and Pb. Thermodynamic properties are given for the following 22 gases in the range from room temperature to 20,000°K: H, H<sup>+</sup>, H<sup>-</sup>, O, O<sup>+</sup>, H<sub>2</sub>, O<sub>2</sub>, O<sub>3</sub>, OH, OH<sup>+</sup>, H<sub>2</sub>O, N, N<sup>+</sup>, Na, N<sub>2</sub>, NO, NO<sup>+</sup>, C, C<sup>+</sup>, CO, CO<sup>+</sup>, and e<sup>-</sup>; for the 14 least stable gases up to 4000°K; and for the remaining 299 gases up to 6000°K. Virial coefficients for 34 gases are also given up to 6000°K.

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PART I. METHODS OF CALCULATING THE THERMODYNAMIC PROPERTIES OF INDIVIDUAL SUBSTANCES

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17(7), 23(3,4,5)

SOV/77-4-4-7/19

AUTHORS: Danilin, A.A., Kozyrina, Z.N., Shcherban', E.I. and  
Khachkurozova, E.S.TITLE: Autoradiography of Smears of Peripheric Blood as a  
Method of Early Recognition of Inner Irradiation With  
Radioactive SubstancesPERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinemato-  
grafii, 1959, Vol 4, Nr 4, pp 289-291 (USSR)ABSTRACT: The authors present a method of autoradiography of  
smears of peripheric blood by putting photographic  
emulsions on them. From blood, containing radioactive  
substances, a thin smear is prepared on a clean. by  
alcohol and ether thoroughly degreased microscope slide.  
The dried smear is fixed by methyl alcohol. A sublayer of 1% celiodine solution is put on the fixed blood  
smear. Then liquid photographic emulsion is put on  
the smear. The dried up smear is exposed in a cooler.  
The exposed preparation is treated for 3-4 minutes  
in amidol developer and fixed with 40% hyposulphite.  
The smear is dyed after the radioautography is dried

Card 1/2

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721630001-1

SOV/77-4-4-7/19

Autoradiography of Smears of Peripheric Blood as a Method of Early  
Recognition of Inner Irradiation With Radioactive Substancesup. The dyed preparation is covered with lacquer.  
Figures 1, 2 and 3 show microphotographs, made by this  
method. There are 3 diagrams and 4 Soviet references.ASSOCIATION: Leningrad, Tsentral'nyy nauchno-issledovatel'skiy rent-  
geno-radiologicheskiy institut Ministerstva zdravo-  
okhraneniya SSSR (Leningrad Central Scientific Research  
Institute for Roentgenology and Radiology of the Min-  
istry of Public Health of USSR)

SUBMITTED: May 17, 1958

Card 2/2

KHACHKURUZOVA, E.S.

Determination of the location of the micro-object in a preparation  
(microlocation). Lab. delo 10 no.4:251 '64. (MIRA 17:5)

l. TSentral'nyy nauchno-issledovatel'skiy institut meditsinskoy ra-  
diologii (direktor Ye.I.Vorob'yev) Ministerstva zdravokhraneniya SSSR,  
Leningrad.

APPROVED FOR RELEASE: 09/17/2001  
BELUGINA, Z.T.; KHACHKURUZOVA, E.S.

CIA-RDP86-00513R000721630001-1"

Dynamics of the hematopoietic activity of the gastric  
contents and the secretory activity of the stomach in  
radiophosphorus treatment of polycythemia vera. Med. rad. 8  
no.7:34-38 J1 '63. (MIRA 17:1)

l. Iz radioterapevticheskogo otdeleniya (zav. ... kand. med.  
nauk Ye.N. Mozharova) TSentral'nogo nauchno-issledovatel'-  
skogo instituta meditsinskoy radiologii (dir. Ye.I. Vorob'yev)  
Ministerstva zdravookhraneniya SSSR.